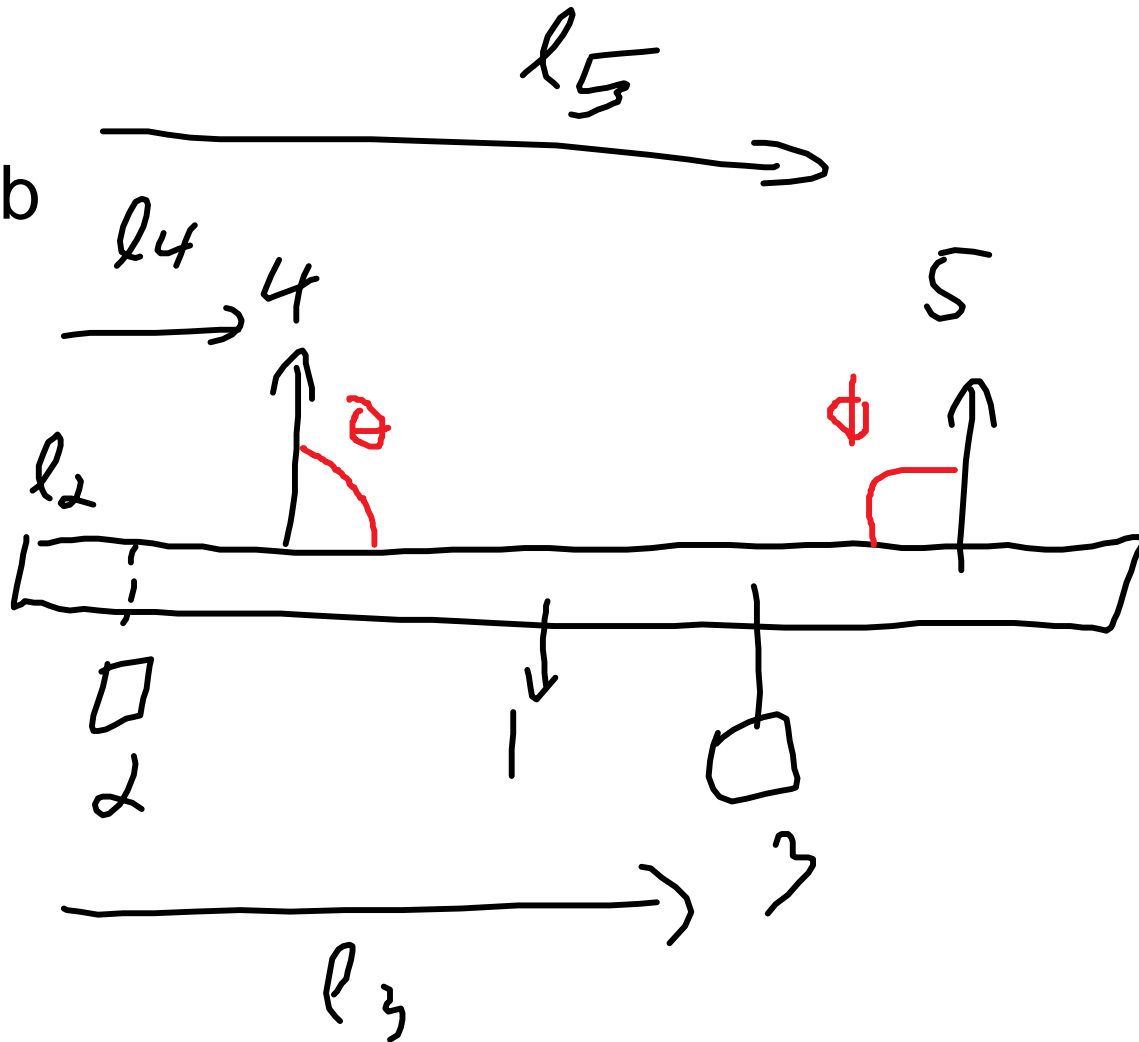


Statics Lab



| values | Trial 1 | Trial 2 | |
|---------------------|---------|---------|--|
| mass of ruler | | | |
| mass of clips | | | |
| $m_2 + \text{clip}$ | | | |
| l_2 | | | |
| $m_3 + \text{clip}$ | | | |
| l_3 | | | |

| | | | |
|----------------------------------|-------|--|--|
| $F_4 \sin\theta$ -weight of clip | | | |
| ℓ_4 | | | |
| $F_5 \sin\phi$ -weight of clip | | | |
| ℓ_5 | | | |
| θ | 90.0° | | |
| ϕ | 90.0° | | |

3calculations

1 sum of torques reference
at the end

2sum of torques reference at
the middle

3 sum of forces

%error = deviation/average